December 17, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee
                                        Configuration Manager, NCEP Central Operations

SUBJECT: Scheduled Operational Changes and Upgrades for
                                        CPC, OPC, and WPC

Climate Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of December 21, 2015:

RFC #538 - Update driver scripts to create figures seen at the top of the web
pages for AO (Arctic Oscillation), AAO (Antarctic Oscillation), NAO (North
Atlantic Oscillation), and PNA (Pacific-North American Pattern) daily indices.
These changes are being made to incorporate and consolidate the existing code
run by a CPC forecaster who is retiring at the end of this year. To be
implemented on December 21 at 1500Z.

RFC #540 - Implement a process to produce consolidated 6-10 day and 8-14 day
forecasts. To be implemented on December 21 at 1830Z.

RFC #541 - Additional variables (U and V wind components at 200 and 850mb)
are being added to the GFS data extraction on the Compute Farm. These
variables were requested by a CPC forecaster for current index monitoring.   To
be implemented on December 22 at 0800Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of December 21, 2015 may affect CPC:

None

The following NCO RFCs are in progress and may affect CPC:

RFC #1558 – WCOSS: Luna and Surge Updates – Apply kernel patches and ssh patches to Luna and Surge.   Perform a Flash 840 firmware upgrade for LSF use on Luna. Perform a Brocade firmware upgrade on Surge. Luna implementation was completed on December 15. Surge implementation will be performed on December 21.

RFC #1579 – GPFS v4.1 (on Gyre) - Enhance the existing WCOSS - Gyre phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. To be implemented beginning December 17 at 1200Z and should be completed by January 11. NCO/IDSB will send notification to users via the WCOSS-announce mailing list should planned work be impactful to users.

Ocean Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of December 21, 2015:

RFC #534 - Change NMAP2 PGEN default colors (modifying the filled head arrows to default to blue). This is being done at the request of the OPC LOT. To be implemented on December 21 at 1230Z.

RFC #535 - Add GDAS 0.25 deg to NAWIPS tables. To be implemented on December 21 at 1430Z.

RFC #536 - Modify the Long Island Sound Vibrio Doubling time web page to include a new page, the Westport, CT Best Harvest Windows tool. To be implemented on December 21 at 1430Z.

RFC #537 - Add experimental VGF creation script for operational evaluation. Includes improvements to the create_xml.pl script by extending file creation to all OPC products and adding gdas_0p25 and gfs_0p25 options and emsl for GFS and GDAS options. The script will be available in parallel with the existing make VGF scripts for operational evaluation. To be implemented on December 21 at 1500Z.

RFC #539 - Modify the Long Island Vibrio Doubling Times web page to use a new jsani version that eliminates flickering in image loops. There is a flickering of images in the loops for Doubling Time, SST, salinity, and air temperature. The jsani version needs to be updated to version 2, which has a fix for flickering images. The new jsani version was installed on the RZDM in an earlier RFC. To be implemented on December 21 at 1530Z.

The following RFCs are in progress:

None

The following NCO RFCs to be implemented the week of December 21, 2015 may affect OPC:

None

The following NCO RFCs are in progress and may affect OPC:

RFC #1522 – MRMS v10.5.1 - Update MRMS to version 10.5.1, to begin production of the RIDGE2 (Radar Integrated Display with Geospatial Elements version 2) products operationally. Implementation began on November 30 at 1300Z and should be completed by December 28.

RFC #1558 – WCOSS: Luna and Surge Updates – Apply kernel patches and ssh patches to Luna and Surge.   Perform a Flash 840 firmware upgrade for LSF use on Luna. Perform a Brocade firmware upgrade on Surge. Luna implementation was completed on December 15. Surge implementation will be performed on December 21.

RFC #1579 – GPFS v4.1 (on Gyre) - Enhance the existing WCOSS - Gyre phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. To be implemented beginning December 17 at 1200Z and should be completed by January 11. NCO/IDSB will send notification to users via the WCOSS-announce mailing list should planned work be impactful to users.

The following NCO RFCs, which may affect OPC, were approved with an implementation date TBD:

RFC #1357 – RTOFS global v1.1.0 – Major upgrade of the Global RTOFS model. See the TIN at: http://www.nws.noaa.gov/os/notification/tin15-36global-rtofsaaa.htm for details. This was advertised as having an October 6 implementation date but this implementation is being postponed due to a delay in the Navy's HYCOM model upgrade. Once the HYCOM upgrade is implemented, the Global RTOFS will be scheduled for implementation. Notification will be given in advance so users may prepare for any changes which may affect them. This upgrade of the Global RTOFS was approved by the NCEP Director.

Weather Prediction Center

The following accelerated items were implemented this past week:

None

The following will be implemented the week of December 21, 2015:

None

The following RFCs are in progress:

RFC #517 - For the 2016 Winter Weather Experiment, test and run CF scripts to compute wind probabilities using NDFD winds and 10-meter winds from SREF/GEFS, create hourly snowfall verification using RAP13 and WPC ptype algorithm, post process experimental fields from 3km NAMX and HRAM3.

Implementation to begin on December 7 at 1600Z and be completed by 2200Z on December 28.

The following NCO RFCs to be implemented the week of December 21, 2015 may affect WPC:

None

The following NCO RFCs are in progress and may affect WPC:

RFC #1522 – MRMS v10.5.1 - Update MRMS to version 10.5.1, to begin production of the RIDGE2 (Radar Integrated Display with Geospatial Elements version 2) products operationally. Implementation began on November 30 at 1300Z and should be completed by December 28.

RFC #1558 – WCOSS: Luna and Surge Updates – Apply kernel patches and ssh patches to Luna and Surge.   Perform a Flash 840 firmware upgrade for LSF use on Luna. Perform a Brocade firmware upgrade on Surge. Luna implementation was completed on December 15. Surge implementation will be performed on December 21.

RFC #1579 – GPFS v4.1 (on Gyre) - Enhance the existing WCOSS - Gyre phase-1 and phase-2 storage solution by adding metadata-only GPFS NSD servers and changing the existing data-and-metadata NSD to data-only servers. Existing data will be "restriped" to separate the data and metadata. To be implemented beginning December 17 at 1200Z and should be completed by January 11. NCO/IDSB will send notification to users via the WCOSS-announce mailing list should planned work be impactful to users.

Please note that security-related RFCs are never listed in the RFC memo.

---- OPERATIONAL ANNOUNCEMENTS ----

1.   The CPC/OPC/WPC Configuration Management documents are available at https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.